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APPLICATION N	io.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/632,300		08/01/2003	John L. McNitt	03-0813	3683	
24319	7590	09/20/2004		EXAMINER		
	GIC CORP	ORATION E	CUNNINGHAM, TERRY D			
	06 LEGAL	-		ART UNIT	PAPER NUMBER	
MILPITA	AS, CA 95	035		2816		
				DATE MAILED: 00/20/200	1	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
Office Action Cumment		10/632,300	MCNITT ET AL.				
Office Action Sum	mary	Examiner	Art Unit				
		Terry D. Cunningham	2816				
The MAILING DATE of this Period for Reply	s communication app	ears on the cover sheet with the	correspondence addre	SS			
 after SIX (6) MONTHS from the mailing date If the period for reply specified above is less If NO period for reply is specified above, the Failure to reply within the set or extended period 	COMMUNICATION. the provisions of 37 CFR 1.13 of this communication. than thirty (30) days, a reply maximum statutory period weriod for reply will, by statute, hree months after the mailing	IS SET TO EXPIRE 3 MONTH (6(a). In no event, however, may a reply be till within the statutory minimum of thirty (30) da ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONI date of this communication, even if timely file	mely filed ys will be considered timely. In the mailing date of this commit ED (35 U.S.C. § 133).	unication.			
Status							
1) Responsive to communica	tion(s) filed on	_•					
2a) This action is FINAL.	2b)⊠ This	action is non-final.					
3) Since this application is in				erits is			
	ine practice under E	x parte Quayle, 1935 C.D. 11, 4	55 U.G. 215.				
Disposition of Claims							
4)⊠ Claim(s) <u>1-24</u> is/are pendir							
4a) Of the above claim(s) _		vn from consideration.					
5) Claim(s) is/are allow							
6)⊠ Claim(s) <u>1-24</u> is/are rejecte 7)□ Claim(s) is/are obje							
8) Claim(s) is/are objection = 15/2 Claim(s) are subjection = 15/2 Claim(s)		election requirement					
	t to restriction and/or	election requirement.					
Application Papers							
9) The specification is objecte							
10)⊠ The drawing(s) filed on <u>01</u> ∕	The drawing(s) filed on 01 August 2003 is/are: a) accepted or b) objected to by the Examiner.						
		drawing(s) be held in abeyance. Se	• •				
		on is required if the drawing(s) is ob		• •			
11) The oath or declaration is o	bjected to by the Ex	aminer. Note the attached Office	≥ Action or form PTO-1	152.			
Priority under 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a) ☐ All b) ☐ Some * c) ☐ N	lone of:)-(d) or (f).				
_	<u>-</u>	have been received.	ian Na				
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application from the			ed in this National Sta	ge			
		of the certified copies not receive	ed.				
Attachment(s)							
1) Notice of References Cited (PTO-892)		4) Interview Summary	/ (PTO-413)				
2) Notice of Draftsperson's Patent Drawing	•	Paper No(s)/Mail D	ate	2)			
 Information Disclosure Statement(s) (P[*] Paper No(s)/Mail Date 	10-1449 or P10/SB/08)	6) Other:	Patent Application (PTO-152	-)			

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DETAILED ACTION

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "bipolar transistors" of claim 5, the "inductor" of claim 13, the "counter" of claim 14 and the "tapped delay" of claim 16 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to

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which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 14-16 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The specification fails to enable a "clock generator" with the details recited in claims 1416. Since the specification fails to provide any details for the "clock generator", it is not seen
that one skilled in the art can make and use such with the elements claimed.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 13 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 13, there is no support found in the specification for the "filter" including an "inductor". As clearly seen in Fig. 1, the "filter" includes a <u>conductor</u>. Further, it is not seen that the circuit will operation if an "inductor" is used in place of capacitor CLOAD.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claims 1-4 and 6-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Matsui et al. (USPN 5,502,415).

With respect to claims 1-16 and 21-24, Matsui et al. disclose, in Figs. 1, 3 and 4, a circuit comprising: "multiple phase active level overlapping clock generator (Fig. 3)" having "a counter (120)" and "a tapped delay (111-115)" wherein the "inactive portions" of the clock signals are "never overlapping (see Fig. 4)"; and "a plurality of voltage divider pairs (311,411 and 331,421)" each having "an input end switch (311 and 331)" and "an output end switch (411 and 421)", all connected and operating similarly as recited by Applicant.

With respect to claims 17-20, the above circuit to Matsui et al. will provide a method comprising: "setting a length of a phase clock period (with 110)"; "setting a duty cycle of the phase clock period (with 110)"; "pairing overlapping phase clock signals from all of a plurality of phase clock signals (with 120)", and "charging and discharging (with the circuit of Fig. 1) capacitors (212, 222, 232 and 242) associated with each phase clock pair".

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Matsui et al. (USPN 5,502,415). The above discussed circuit to Matsui et al. discloses a circuit similar to that claimed, but using MOSFET transistors, rather than bipolar transistors. However, it is

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notoriously well known in the art that MOSFETs and bipolar transistors are art-recognized equivalents. Therefore, it would have been obvious for one skilled in the art to use bipolar transistors in the above discussed circuit to Matsui et al. in place of the MOSFET transistors due to art-recognized equivalents.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Terry Cunningham whose telephone number is 571-272-1742. The examiner can normally be reached on Monday-Thursday from 7:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TC September 15, 2004 Terry D. Cunningham Primary Examiner

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